Figure 1

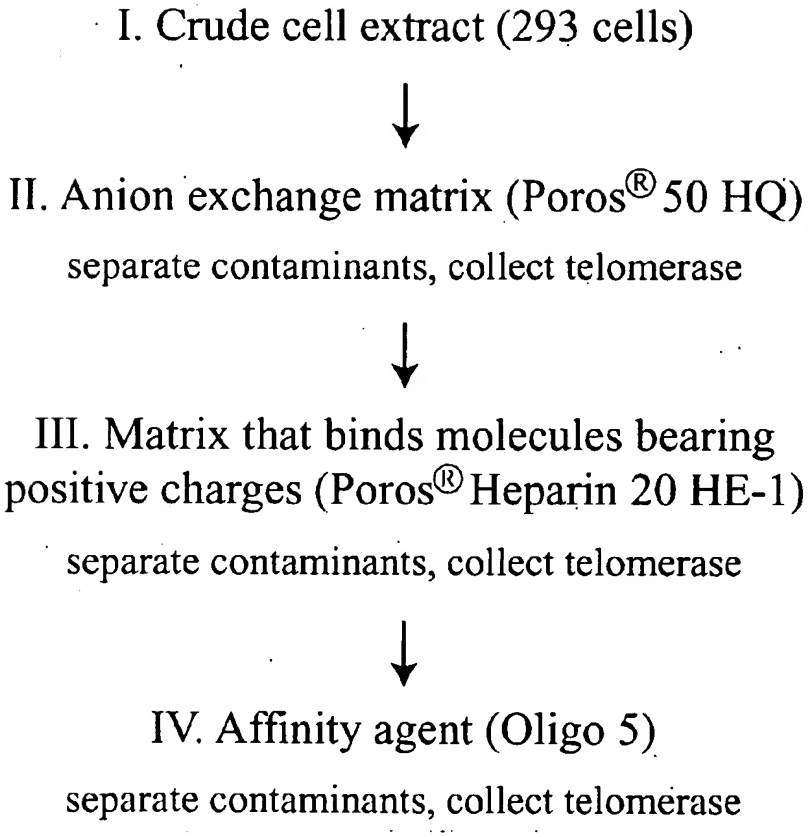

I. Crude cell extract (293 cells)
II. Anion exchange matrix (Poros® 50 HQ)
separate contaminants, collect telomerase
III. Matrix that binds molecules bearing positive charges (Poros® Heparin 20 HE-1)
separate contaminants, collect telomerase
IV. Affinity agent (Oligo 5)
separate contaminants, collect telomerase

Figure 2

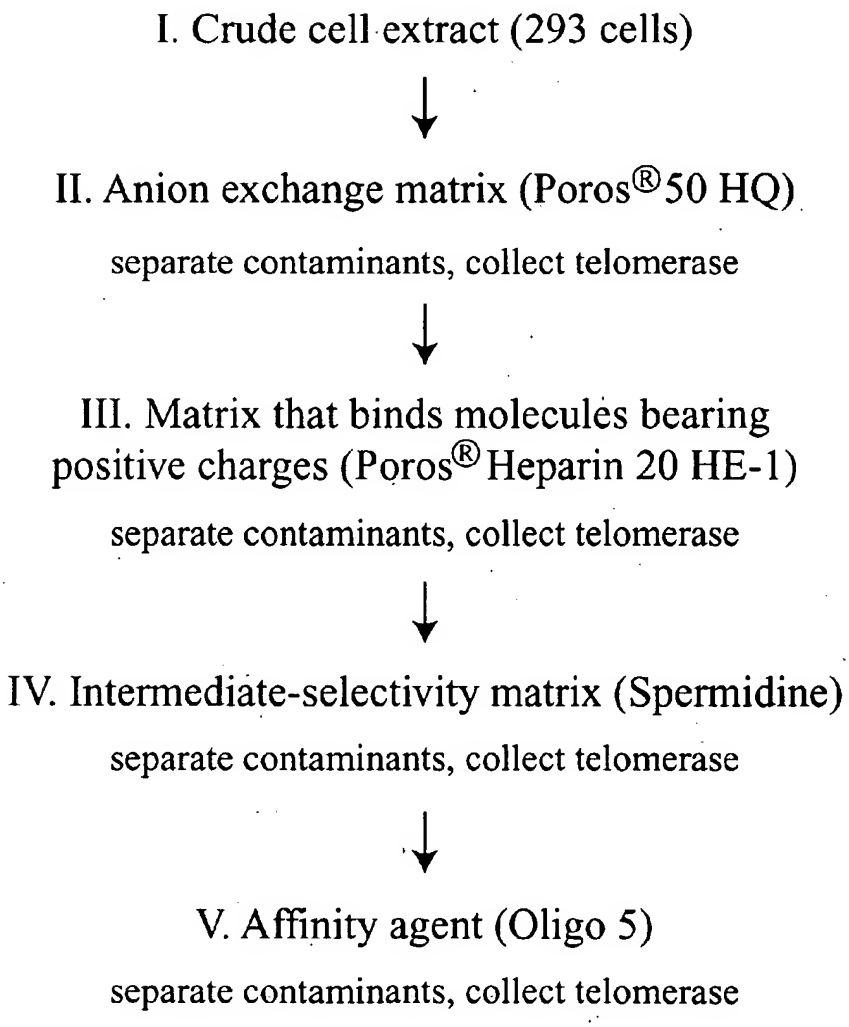

I. Crude cell extract (293 cells)
II. Anion exchange matrix (Poros®50 HQ)
separate contaminants, collect telomerase
III. Matrix that binds molecules bearing positive charges (Poros® Heparin 20 HE-1)
separate contaminants, collect telomerase
IV. Intermediate-selectivity matrix (Spermidine)
separate contaminants, collect telomerase
V. Affinity agent (Oligo 5)
separate contaminants, collect telomerase

Figure 3

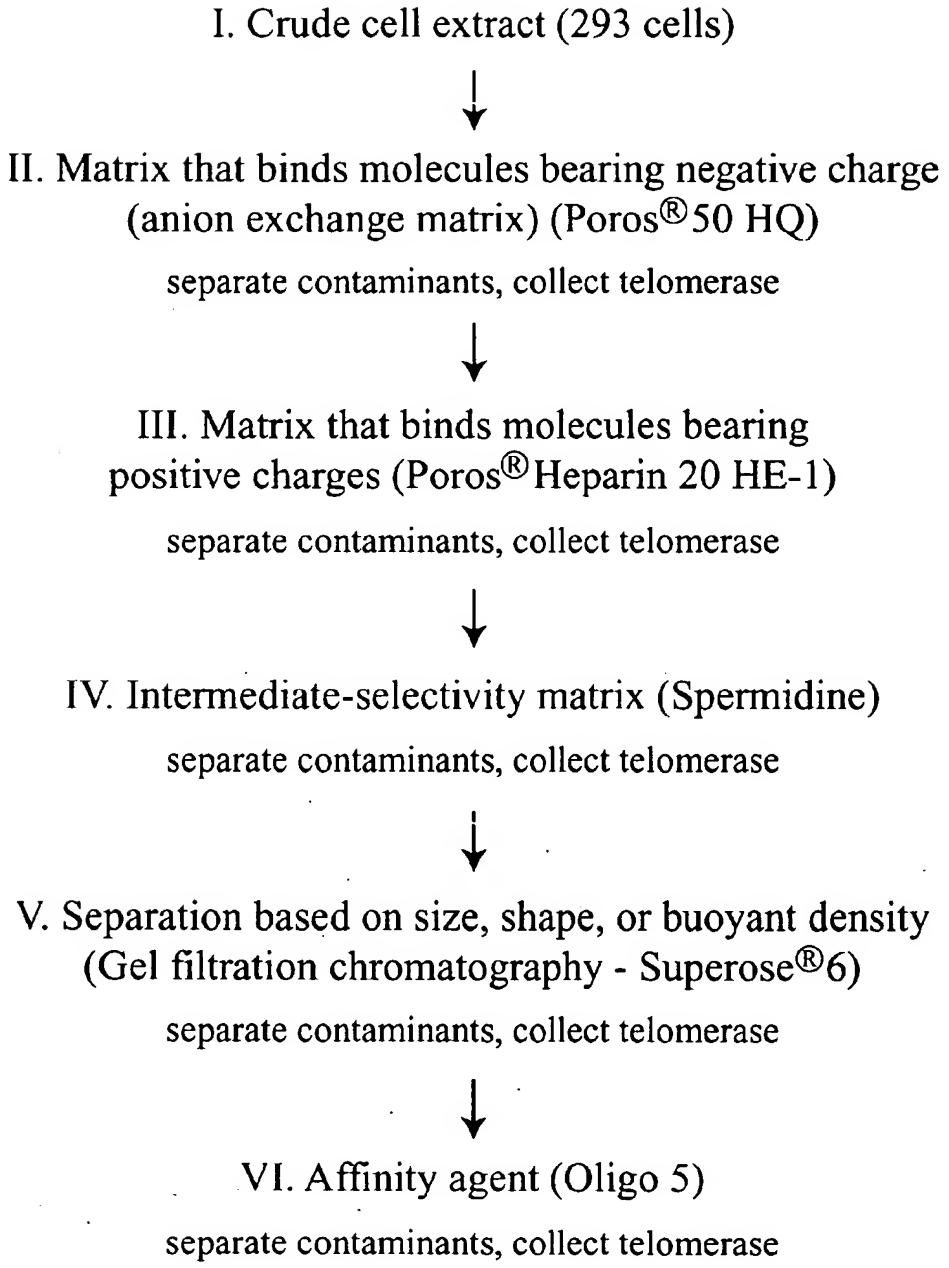

I. Crude cell extract (293 cells)
II. Matrix that binds molecules bearing negative charge (anion exchange matrix) (Poros®50 HQ)
separate contaminants, collect telomerase
III. Matrix that binds molecules bearing positive charges (Poros®Heparin 20 HE-1)
separate contaminants, collect telomerase
IV. Intermediate-selectivity matrix (Spermidine)
separate contaminants, collect telomerase
V. Separation based on size, shape, or buoyant density (Gel filtration chromatography - Superose®6)
separate contaminants, collect telomerase
VI. Affinity agent (Oligo 5)
separate contaminants, collect telomerase

Figure 4

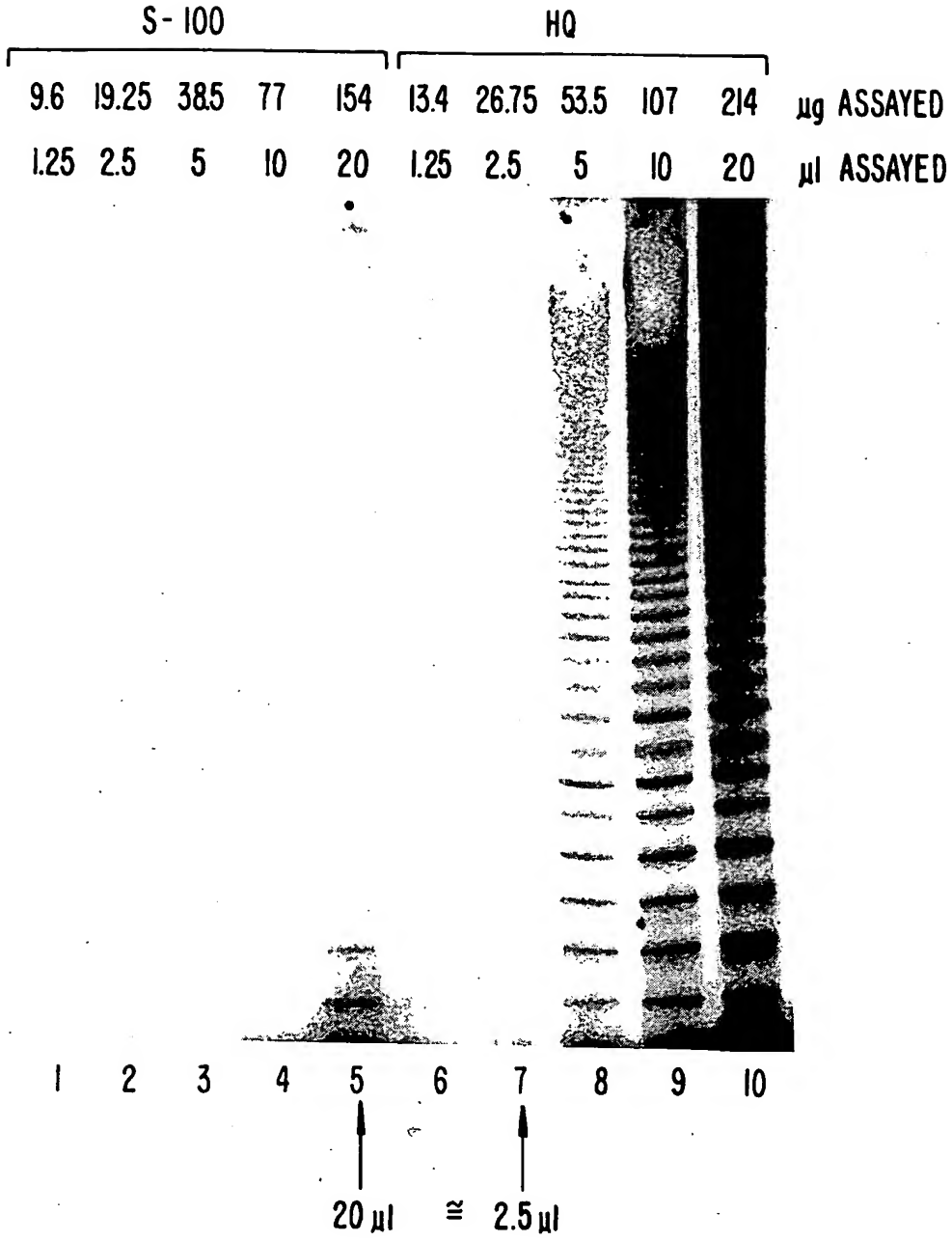

S-100
HQ
9.6 19.25 38.5 77 154 13.4 26.75 53.5 107 214 µg ASSAYED
1.25 2.5 5 10 20 1.25 2.5 5 10 20 µl ASSAYED
1 2 3 4 5 6 7 8 9 10
20 µl ≅ 2.5 µl

Figure 5

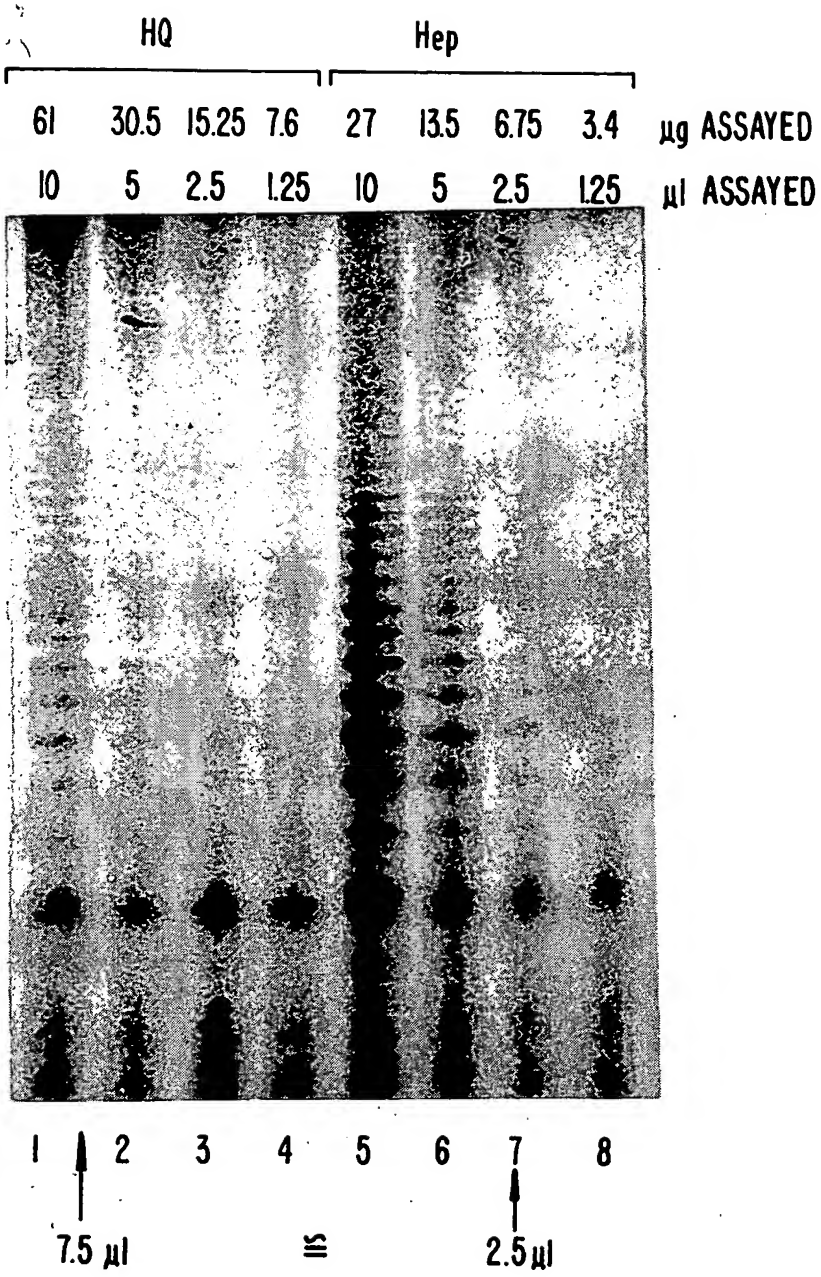
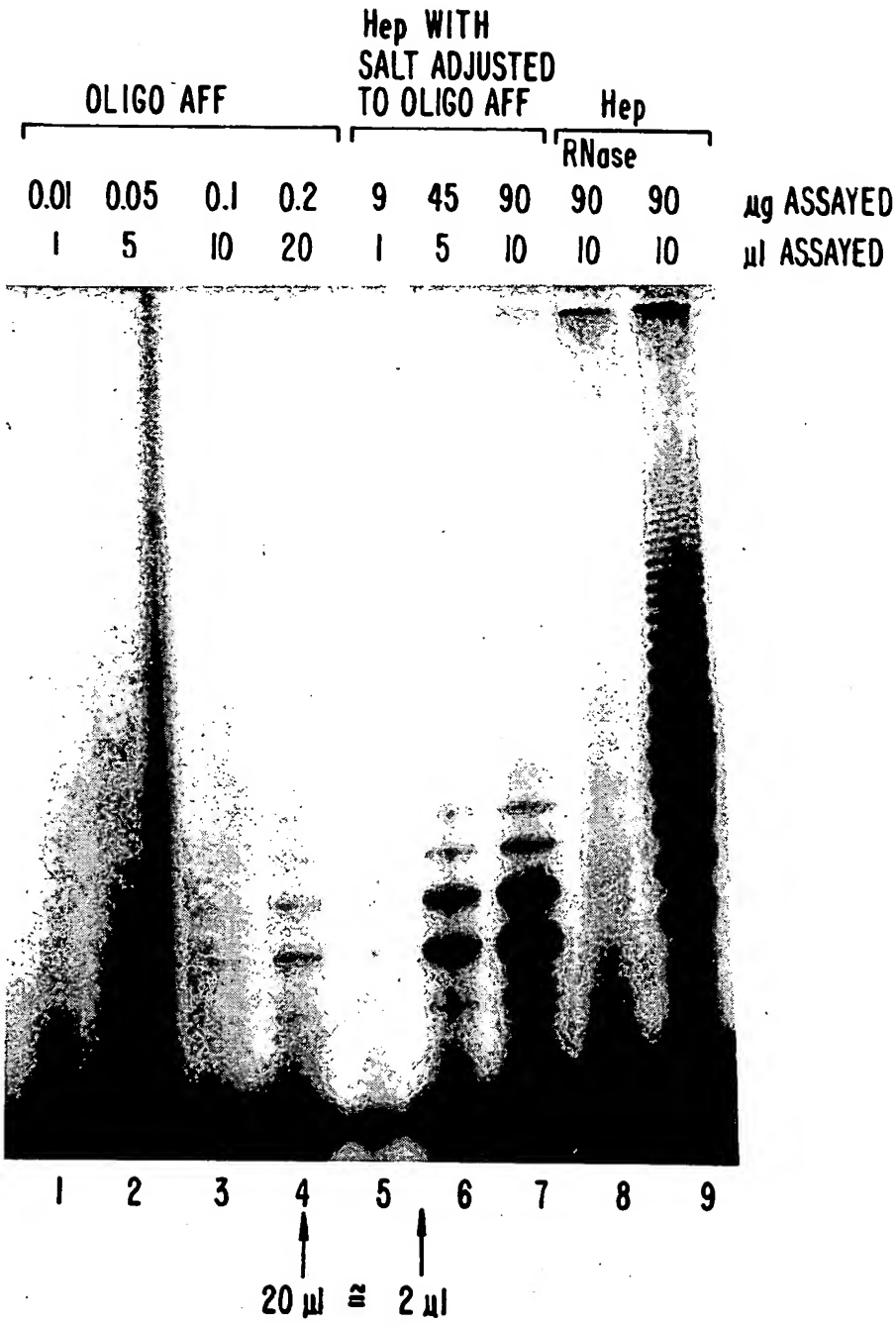
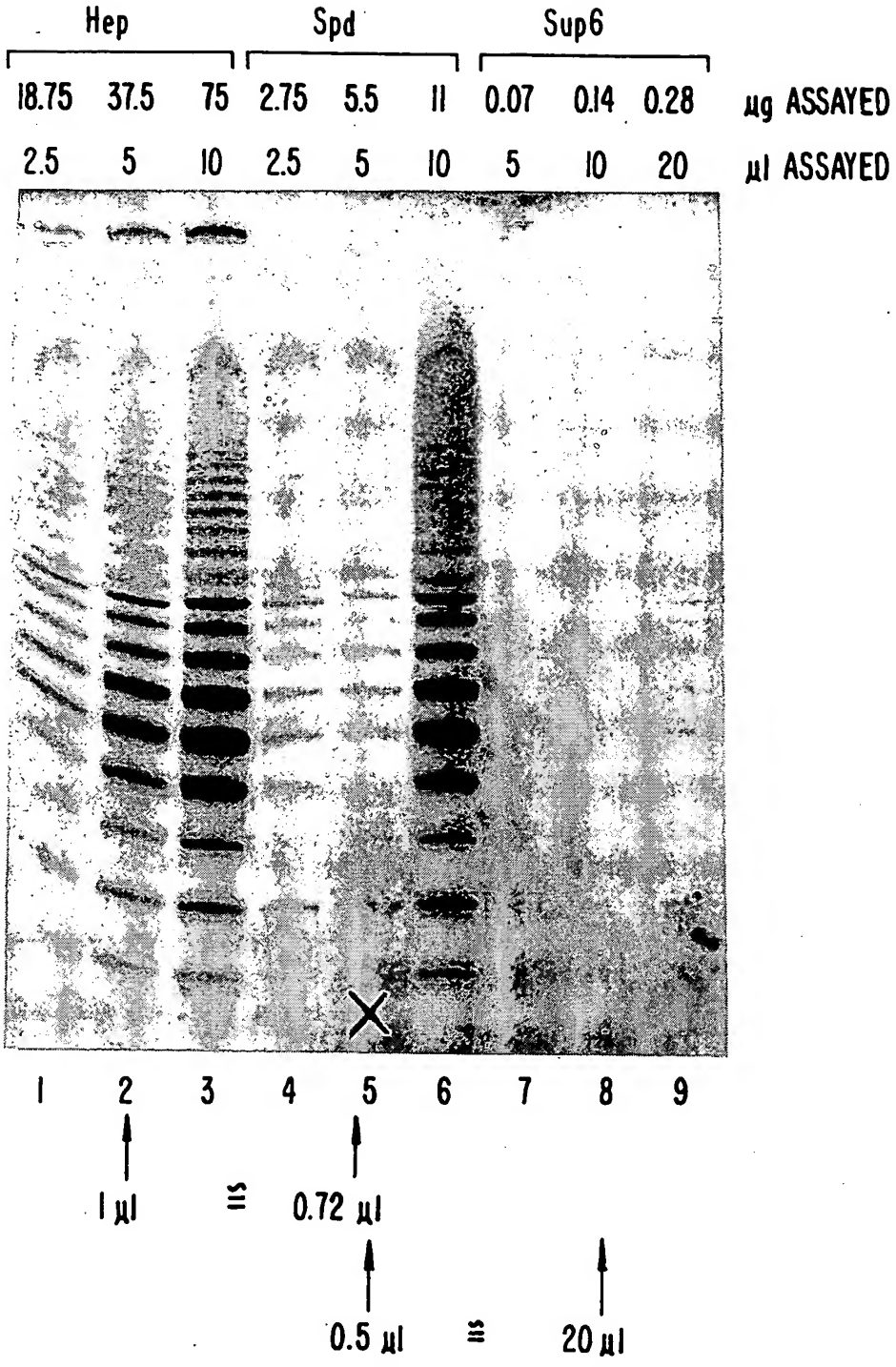

HQ
Hep
61 30.5 15.25 7.6 27 13.5 6.75 3.4 µg ASSAYED
10 5 2.5 1.25 10 5 2.5 1.25 µl ASSAYED
1 2 3 4 5 6 7 8
7.5 µl
2.5 µl
ESTIMATED EQUIVALENT FOR "UNIT" OF ACTIVITY

Figure 6



ESTIMATED EQUIVALENT FOR "UNIT" OF ACTIVITY

Figure 7


Hep
Spd
Sup6
18.75 37.5 75 2.75 5.5 11 0.07 0.14 0.28 µg ASSAYED
2.5 5 10 2.5 5 10 5 10 20 µl ASSAYED
1 2 3 4 5 6 7 8 9
1 µl ≅ 0.72 µl
0.5 µl ≅ 20 µl
ESTIMATED EQUIVALENT FOR "UNIT" OF ACTIVITY